



WORK ORDER CONTRACT AND PRE-TREATMENT DATA

FORM 1908 R-4

A Division of Halliburton Company DUNCAN, OKLAHOMA 73536

ATTACH TO INVOICE & TICKET NO. 152463

DISTRICT LIBERAL, KS

DATE 9-3-85

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: MURFIN DRILLING (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1-13 LEASE TENAEL SEC. 13 TWP. 21 S RANGE 48 W

FIELD COUNTY PROWERS STATE CO OWNED BY SAME

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME TYPE FORMATION THICKNESS FROM TO PACKER: TYPE SET AT TOTAL DEPTH 4900 MUD WEIGHT BORE HOLE INITIAL PROD: OIL BPD, H2O BPD, GAS MCF PRESENT PROD: OIL BPD, H2O BPD, GAS MCF

Table with columns: NEW USED, WEIGHT, SIZE, FROM, TO, MAX. ALLOW. P.S.I. Rows include CASING, LINER, TUBING, OPEN HOLE, PERFORATIONS.

PREVIOUS TREATMENT: DATE TYPE MATERIALS

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED

CEMENT 4 1/2" LONG STRING WITH 175 SWS 50-50 P02 10% SALT 25% CFA 290 Gel

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

- As consideration, the above-named Customer agrees: (a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. (b) Halliburton shall not be responsible for and Customer shall secure Halliburton against any liability for damage to property of Customer and of the well owner...

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED [Signature] CUSTOMER

DATE 9-3-85

TIME 1410 A.M. P.M.

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

CUSTOMER

# HALLIBURTON SERVICES JOB SUMMARY

FORM 2025

HALLIBURTON DIVISION

WICHITA, KS

HALLIBURTON LOCATION

LAMAR, CO

BILLED ON TICKET NO.

152463

## WELL DATA

FIELD \_\_\_\_\_ SEC. 13 TWP. 21S RNG. 48W COUNTY PROWERS STATE CO

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_

FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_

INITIAL PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD \_\_\_\_\_

PRESENT PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD \_\_\_\_\_

COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_

PACKER TYPE \_\_\_\_\_ SET AT \_\_\_\_\_

BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_

MISC. DATA \_\_\_\_\_ TOTAL DEPTH 4900

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>N</u>	<u>10.5</u>	<u>4 1/2</u>	<u>K3</u>	<u>4884</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>DIFF FILL 4 1/2</u>	<u>1</u>	<u>Howco</u>
FLOAT SHOE <u>GUIDE 4 1/2</u>	<u>1</u>	<u>Howco</u>
GUIDE SHOE		
CENTRALIZERS <u>S-3 4 1/2</u>	<u>12</u>	<u>Howco</u>
BOTTOM PLUG		
TOP PLUG <u>S-W</u>	<u>1</u>	<u>Howco</u>
HEAD <u>4 1/2 ROTATING</u>	<u>1</u>	<u>Howco</u>
PACKER		
OTHER <u>Howco WELID</u>	<u>1</u>	<u>Howco</u>
<u>E2 LOCK CLAMP</u>	<u>2</u>	<u>Howco</u>

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>9-3</u>	DATE <u>9-3</u>	DATE <u>9-3</u>	DATE <u>9-3</u>
TIME <u>1300</u>	TIME <u>1410</u>	TIME <u>1415</u>	TIME <u>1930</u>

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>RKKUEHLE</u>		<u>LAMAR, CO</u>
<u>S. YABARA</u>		

### MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL.<sup>0</sup> API

DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL.<sup>0</sup> API

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN

NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN

FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

BREAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_

PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

DEPARTMENT CEMENT

DESCRIPTION OF JOB 4 1/2 LONG STRING

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.

CUSTOMER REPRESENTATIVE X [Signature]

HALLIBURTON OPERATOR RKKuehle COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>175</u>	<u>50-50 P2</u>			<u>B</u>	<u>27% Gel 75% CFR-2 10% SAT 1/3</u>	<u>132</u>	

## PRESSURES IN PSI

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_

BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_

## SUMMARY

PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_

LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_

TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. \_\_\_\_\_

CEMENT SLURRY: BBL.-GAL. \_\_\_\_\_

TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

## VOLUMES

### HYDRAULIC HORSEPOWER

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_

AVERAGE RATES IN BPM \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL. 4.5 OVERALL \_\_\_\_\_

CEMENT LEFT IN PIPE \_\_\_\_\_

FEET 42 REASON SHOE POINT

## REMARKS

CUSTOMER

CUSTOMER: MURPHY DRILLING  
LEASE: TEMER  
WELL NO.: 1-13  
JOB TYPE: 4 1/2" LONG STRING DATE: 9-3-85

HALLIBURTON SERVICES  
JOB LOG

WELL NO. 1-13 LEASE TEMPEL TICKET NO. 152463  
 CUSTOMER MURFIN DRILLING PAGE NO. \_\_\_\_\_  
 JOB TYPE 4 1/2" LONG STRING DATE SEPT 5, 1985

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
9-5	1300							CALLED OUT
	1410							ON LOCATION
	1415							RUN FLOAT EQ.
	1540							BREAK CIRCULATION 91' JT
	1645							ON BOTTOM MAKE UP HEADS + LINES
								RIG CALCULATE
	1745	6	200 MUD				100	START PUMPING HYDRAZINE
	1830							FINISH HYDRAZINE, WASH <sup>TANKS</sup> <del>CONNECTIONS</del>
	1840	4.1	41				100	START CEMENT
	1855							FINISH CEMENT, WASH LINES & PUMPS
	1855	6	77				400 MUD	DROP PLUG, START DISPLACEMENT
	1912	3					1600	PLUG BUMP, @ 78 BLS TOTAL
								BLEED DOWN PRESURE, FLOAT OKAY
								RIG DOWN, JOB FINISHED

Thank you

RK Kuehl

CUSTOMER